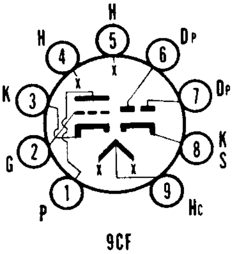


SYLVANIA TYPE 12BR7

DUO DIODE TRIODE



MECHANICAL DATA

Bulb	T-6½
Base	E9-1, Small Button 9-Pin
Outline	6-2
Basing	9CF
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage Series/Parallel	12.6/6.3 Volts
Heater Current	225/450 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode	
Total D C and Peak	200 Volts Max.
Heater Positive with Respect to Cathode	
D C	100 Volts Max.
Total D C and Peak	200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Shielded)[1]

Triode Grid to Plate	1.9 μμf
Triode Input	2.8 μμf
Triode Output	1.0 μμf
Diode Input (Each Diode)	2.0 μμf

RATINGS (Design Center Values)

Plate Voltage (Triode)	300 Volts Max.
Plate Dissipation (Triode)	2.5 Watts Max.
Peak Inverse Diode Voltage	300 Volts Max.
Peak Diode Current	60 Ma Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A[1] Amplifier

Plate Voltage	100	250	Volts
Cathode Bias Resistor	270	200	Ohms
Amplification Factor	60	60	
Plate Resistance (approx.)	15,000	10,900	Ohms
Transconductance	4000	5500	μmhos
Plate Current	3.7	10	Ma
Grid Voltage (approx.) for i_b = 10 μa	-5	-12	Volts
Average Diode Current, Each Diode with 5.0 Volts D C Applied		17	Ma

NOTE:

1. Shield No. 315.

APPLICATION

The Sylvania Type 12BR7 is a miniature high mu triode duo diode intended for application in monochrome and color television receivers.